

**January 12, 2005**

**To: Members, Water Use Efficiency Subcommittee**  
**From: Tom Gohring, Water Use Efficiency Program Manager**  
**Re: Performance Measures**

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At the Water Use Efficiency Subcommittee's November 2004 meeting, Subcommittee members had an opportunity to review and offer preliminary comments on the Program's working example of WUE-related performance measures.

The discussion generated specific comments for revising the then-current draft. More broadly, Subcommittee members strongly recommended that the Program work more closely with interested stakeholder and agency representatives in the coming months to develop a more representative and meaningful list of performance measures. The attached material and next week's Subcommittee discussion is intended to facilitate that request.

Attached is a revised list of WUE-related performance measures being considered by the WUE Program. This list of indicators, developed by staff and consultants, is intended to generate data that can help assess the impact of water use efficiency investments (both CALFED and non-CALFED). The indicators fall into three categories: administrative, project performance and water balance components. This most recent version reflects both past discussions on this topic and more recent feedback from the CALFED Science Program and Science Board.

The Program will be working with the Water Use Efficiency implementing agencies over the next several weeks to determine: (1) what data is already being collected that can provide the information necessary to support these indicators; and, (2) what additional data is needed. The Program will be working particularly closely with the Department of Water Resources (DWR) to facilitate the inclusion of performance measures into the DWR-drafted 2005 WUE Program Plan.

The Subcommittee's discussion on January 19 is expected to inform the initial list of indicators incorporated into the draft Program Plan to be released later this month. Subsequent Subcommittee discussions, if necessary, can inform the final Program Plan (set to be released in April).

We look forward to discussing this material with you Tuesday.

## Water Use Efficiency Data for Performance Indicators

*Dimensions for all levels:   Regional/Geographic Dimensions*  
*Sector: Agricultural, Urban, Recycling*

### Level 1: Administrative

*This level includes data regarding numbers of projects executed and funding dedicated toward and spent on projects and programs.*

- Dollars encumbered (\$)
- Dollars spent (\$)
- Funding source(s): local, state, federal
- Numbers of projects proposed and executed (#)
- Type of project:
  - Administrative, oversight & coordination
  - Studies, science, education
  - Implementation

#### *Characteristics needed for all data*

- Units/ qualitative analysis
- Collector/ data storage location
- Data reporter
- Data analyzer
- Period of record
- Frequency

### Level 2: Project Performance

*This level includes data regarding the specific outcomes of WUE projects.*

- Oversight/Coordination, Studies, Science and Education:
  - Significant outcomes or milestones achieved
- Project implementation
  - Expected outcomes: AF or water quality change
    - Rerouted flow
    - Reduced irrecoverable loss
  - Observed outcomes: AF or water quality change
    - Rerouted flow
    - Reduced irrecoverable loss

### Level 2: Water Balance Components

*This level includes non-project data that can indicate the lumped effects of WUE (or other water management) activities:*

- Water Extraction
  - Diversions (AF)
  - Groundwater (AF)
- Deliveries (AF)
- Consumption (AF)
- Return Flow (AF)
- Extraction (AF)
- Per capita use (gpc)
- Flows to salt sinks (AF)
- Reuse (AF)
- Stream flow (AF)
- Water quality (*concentration*)
- Demographics (*population, income, density*)